

Series CTS (SCA)



Metal Case Tantalum Capacitors Axial Type Solid Electrolytic

Features:

- Solid electrolytic.
- Polar type.
- Hermetically sealed metal cases.
- Axial leads.
- General purpose-extended range.



SPECIFICATION:

Item	Performance Characteristics																											
Operating Temperature Range	-55 to + 125°C																											
Rated Working Voltage Range	6.3 to 35 V DC																											
Nominal Capacitance Range	1.0 to 330 μ F																											
Capacitance Tolerance	$\pm 20\%$ (120Hz, +20°C) $\pm 10\%$																											
Leakage Current	Not more than 0.01CV [μ A] or 0.5 μ A whichever is greater																											
tan δ (120Hz, +20°C)	0.04 max. for $\leq 4.7\mu$ F																											
	0.06 max. for 6.8~68 μ F																											
	0.08 max. for 100~330 μ F																											
Characteristics at High and Low Temperature	-55°C	Capacitance change	$\pm 10\%$ of initial measured value at +20°C																									
	+125°C	Leakage current	≤ 0.1 CV or 5 [μ F] whichever is greater																									
		Capacitance change	$\pm 15\%$ of initial measured value at +20°C																									
Moisture Resistance	Test conditions																											
	Relative humidity : 90 to 95% without load Ambient temperature : +60°C Duration : 1000 hours Post test requirements at + 20°C Leakage current : ≤ 0.1 CV or 5[μ A], whichever is greater Capacitance change : $\pm 10\%$ of initial measured value tan δ : $\leq 200\%$ of initial specified value																											
Endurance	Test conditions																											
	<table border="1"> <thead> <tr> <th>Item \ Conditions</th> <th colspan="2">Derating</th> <th colspan="2">Rating</th> </tr> </thead> <tbody> <tr> <td>Duration</td> <td colspan="2">2000 hours</td> <td colspan="2">2000 hours</td> </tr> <tr> <td>Ambient temperature</td> <td colspan="2">+ 125°C</td> <td colspan="2">+ 85°C</td> </tr> <tr> <td>Applied voltage</td> <td colspan="2">Derated working voltage</td> <td colspan="2">Rated working voltage</td> </tr> <tr> <td>Source impedance</td> <td colspan="2">1Ω/V</td> <td colspan="2">1Ω/V</td> </tr> </tbody> </table>			Item \ Conditions	Derating		Rating		Duration	2000 hours		2000 hours		Ambient temperature	+ 125°C		+ 85°C		Applied voltage	Derated working voltage		Rated working voltage		Source impedance	1 Ω /V		1 Ω /V	
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Shelf Life	Test conditions																											
	Duration	: 2000 hours	Post test requirements at +20°C Same lots of "Endurance".																									
	Ambient temperature	: +125°C																										
	Applied voltage	: (none)																										

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Metal Case Tantalum Capacitors Explanation of Part Numbers

CTS
Series Code

1 V
Rated Voltage

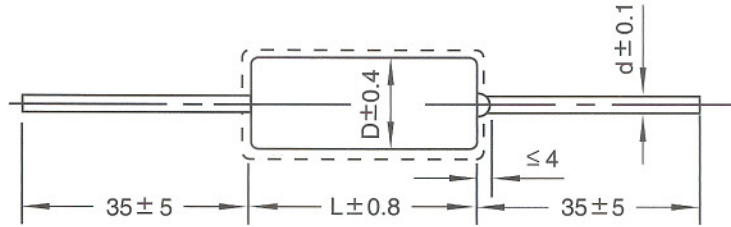
335
Nominal Capacitance

M
Capacitance
Tolerance

B
Case
Size

B
Packing

TANTALUM CAPACITOR METAL CASE OUTLINE DRAWING



Dimensions Millimeters mm

Case Size	A	B	C	D
D x L	3.2 x 8	5 x 12	6 x 14	8 x 14
d ± 0.1	0.4	0.6	0.6	0.8

Rated Voltage, Capacitance of Capacitors.

Rated Voltage (V)	6.3	10	16	25	35
Code	0J	1A	1C	1E	1V
Capacitance (µF)	Case Size				
1.0 (105)					A
1.5 (155)					A
2.2 (225)				A	A
3.3 (335)				A	B
4.7 (475)			A	B	B
6.8 (685)			A	B	B
10 (106)		A	B	B	B
15 (156)		B	B	B	C
22 (226)		B	B	B	C
33 (336)		B	B	C	
47 (476)	B	B	B	C	
68 (686)	B	B	C	D	
100 (107)	B	C	C	D	
150 (157)	C	C	D		
220 (227)	C	D			
330 (337)	D				